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N O T I C E

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80-10050
CR-162522

Geologic Application of Thermal-inertia Mapping from Satellite

Type II Progress Report
September - November 1979

(E80-10050) GEOLOGIC APPLICATION OF THERMAL-INERTIA MAPPING FROM SATELLITE Progress Report, Sep. - Nov. 1979 (Geological Survey) 20 p HC A02/MF A01 CSCL 08B G3/43
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Unclas
00050

Prepared for
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A. Problems

None

B. Accomplishments

The two USGS aircraft scenes which were processed to thermal-inertia images (Progress Reports March - May 1979 and June - August 1979) were concatenated into one image. A contrast stretch was applied to the resulting image to emphasize the thermal property differences. This product is now available to be compared with a thermal-inertia map produced from HCMM data when appropriate data are available. (See the data utility section.)

During this last reporting period, twelve CCT's were received. Each of the data sets have been reformatted to be compatible with the USGS computer. One 36 hour day/night pair of the Cabeza Prieta area appears to have stable meteorological conditions between acquisition times. The nighttime data is presently being registered to the daytime. The list of HCMM products received to date has been updated since the last reporting period.

C. Significant Results

None

D. Publications and Presentations

Ken Watson submitted an abstract for the International Geological Congress titled "Regional geologic analysis from HCMM thermal satellite data". "Ground support data July 10 to July 29, 1979, for the HCMM thermal satellite over the Powder River Basin, Wyoming" is in review to be published as a USGS open-file report.

E. Recommendations

None

F. Funds Expended

Total expenditures to date: $81,838

G. Data Utility

For the Powder River Basin we have received two day/night pairs. The 30 July pair looks anomalous; GOES and NOAA-5 data for this same day confirms the presence of a thin cloud layer over the area. The 5 September data consists of a clear nighttime image and 50% cloud-covered daytime images. Neither of these two data sets are particularly acceptable. If a better day/night pair is not found, one of the above mentioned data sets will be used for the final analysis.

For the Cabeza Prieta site, three day/night pairs have been received: one 84 hour pair, one 60 hour pair, and one 36 hour pair. The 36 hour pair appears to be acceptable.

SITE: Wyoming - Powder River Basin

HCMM DATA PRODUCTS

DATE: May/June 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
5/11	x			x	x	x					x				x				x				x	0015-20220-1	RMS 277
		x		x	x	x					x				x				x				x	0015-20220-2	RMS 278
6/8	x			x	x			x						x			13	130	x				x	0043-20450-1	NW section
		x		x	x			x						x			5	139	x				x	0043-20450-2	-do-
	x			x	x				x					x			14	173		x			x	0043-20430-1	SW section
		x		x	x				x					x			4	166		x			x	0043-20430-2	-do-
			x	x	x			x					x				3	46	x				x	0043-09480-3	NW tip
			x	x	x		x							x			6	65	x				x	0043-09490-3	SW tip, good image of Salt Lake
6/11	x			x	x			x								x	22	181	x				x	0046-20020-1	NE section
		x		x	x			x								x	1	111	x				x	0046-20020-1	-do-
6/12	x			x	x				x							x	20	121	x				x	0047-20190-1	SE corner
		x		x	x				x							x	4	133	x				x	0047-20190-2	-do-
	x			x	x						x				x		14	172	x				x	0047-20200-1	Northern 75%
		x		x	x						x				x		2	122	x				x	0047-20200-2	-do-
6/17		x		x	x		x							x					x				x	0052-20120-2	SE tip
	x			x	x					x					x		16	193	x				x	0052-20130-1	SE section
		x		x	x					x					x		2	131	x				x	0052-20130-2	-do-
6/18	x			x	x							x			x		19	172	x					0053-20310-1	
		x		x	x							x			x		3	146	x					0053-20310-2	
6/19	x				x			x						x			12	208		x			x	0054-20500-1	
		x			x			x							x		2	129	x				x	0054-20500-2	
		x			x		x							x			5	176		x			x	0054-20480-2	Salt Lake good
	x				x		x							x			16	183	x				x	0054-20480-1	

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: May/June 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
6/22	x			x	x		x						x				23	217	x				x	0057-20060-1	
		x		x	x		x						x				7	156	x				x	0057-20060-2	
			x	x	x			x						x			3	63	x				x	0057-09110-3	
			x	x	x			x								x	3	57	x				x	0057-09100-3	
	x			x	x			x							x		12	209	x					0057-20080-1	
		x		x	x			x							x		2	122	x					0057-20080-2	
6/28	x			x	x				x				x				20	199		x			x	0063-20170-1	Southern end
		x		x	x				x				x				3	153		x			x	0063-20170-2	-do-
	x			x	x						x			x			13	194		x			x	0063-20190-1	Northern half
		x		x	x						x			x			13	148		x			x	0063-20190-2	-do-
			x	x	x							x		x			10	66			x		x	0063-09220-3	
			x	x	x				x					x			2	61		x			x	0063-09230-3	
6/29			x	x	x			x								x	1	71	x				x	0064-09390-3	NW tip

BEST QUALITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: July 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
7/2		x		x	x				x						x		7	133	x				x	0067-19540-2	NE corner
	x			x	x				x						x		15	168	x				x	0067-19540-1	-do-
	x			x	x				x					x			15	171	x				x	0067-19540-1	
		x		x	x				x					x			21	135	x				x	0067-19540-2	
7/8	x			x	x			x							x		17	202	x				x	0073-20050-1	SE corner
		x		x	x			x							x		3	149	x				x	0073-20050-2	-do-
7/9			x	x	x			x							x		16	218	x				x	0074-20210-1	
		x		x	x			x							x		2	156	x				x	0074-20210-2	
	x			x	x							x			x		16	181	x				x	0074-20230-1	
		x		x	x							x			x		4	129	x				x	0074-20230-2	
7/13	x			x	x			x						x			16	146	x				x	0078-19570-1	NE corner
		x		x	x			x						x			13	131	x				x	0078-19570-2	-do-
			x	x	x				x						x		4	64	x				x	0078-09020-3	NE quad
7/18	x			x	x		x						x				11	192	x				x	0083-19570-1	
		x		x	x		x						x				3	151	x				x	0083-19570-2	
7/20			x	x	x			x							x		2	55	x				x	0085-09290-3	NW tip
			x	x	x						x			x			2	76			x	x		0085-09310-3	Missing SE part
	x			x	x							x				x	15	217	x				x	0085-20260-1	
		x		x	x							x				x	2	157	x				x	0085-20260-2	
7/24			x	x	x						x		x				9	68			x	x		0089-09060-3	No western edge
	x			x	x		x						x				24	54	x				x	0089-20010-1	Partial frame
		x		x	x		x						x				32	169	x				x	0089-20010-2	-do-
7/25			x	x	x						x					x	2	64	x				x	0090-09230-3	
			x	x	x				x							x	4	72	x				x	0090-09250-3	SW corner
7/29			x	x	x			x								x	2	60	x				x	0094-08590-3	

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: July 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
7/30			x	x	x	x						x	x				6	56			x	x		0095-09170-3	Good data, possibly meteorologically anomalous
	x			x	x		x								x		12	209	x				x	0095-20110-1	SE tip
		x		x	x		x								x		4	145	x				x	0095-20110-2	-do-
	x			x	x	x					x		x				12	172			x	x		0095-20130-1	Missing SE tip
		x		x	x	x					x		x				3	136			x	x		0095-20130-2	-do-
7/31			x	x	x			x			x				x		2	56	x				x	0096-09340-3	
											x			x			10	210	x				x	0096-20300-1	
											x			x			2	145	x				x	0096-20300-2	

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: August 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
8/3			x	x	x			x					x				2	59		x			x	0099-08510-3	
			x	x	x			x					x				2	58		x			x	0099-08530-3	
8/4			x	x	x							x	x				22	61			x	x		0100-09090-3	Very clear
			x	x				x					x				3	63	x				x	0100-09110-3	
8/5			x	x	x						x		x				13	61			x	x		0101-09270-3	Very clear
			x	x	x			x					x				16	79	x				x	0101-09280-3	SW tip, clear over Salt Lake
8/6		x		x	x			x						x			4	157	x				x	0102-20420-2	
	x			x	x		x								x		10	211	x				x	0102-20400-1	
		x		x	x		x								x		2	175	x				x	0102-20400-2	
8/10			x	x	x		x								x		3	76	x				x	0106-09210-3	SW tip
			x	x	x						x		x				4	68			x	x		0106-09200-3	
	x			x	x							x			x		10	18[illegible]		x				0106-20160-1	
		x		x	x							x			x		3	148		x				0106-20160-2	
8/15			x	x	x					x					x		1	45	x				x	0111-09120-3	No. half, clear only near Sheridan
			x	x	x		x							x			1	51	x				x	0111-09140-3	SW tip only
	x			x	x			x					x				15	172	x					0111-20080-1	So. boundary
		x		x	x			x					x				6	154	x					0111-20080-2	-do-
	x			x	x						x			x			11	155		x				0111-20090-1	
		x		x	x						x			x			5	121		x				0111-20090-2	
8/16	x			x	x						x			x			14	191		x				0112-20260-1	
		x		x	x						x			x			2	156		x				0112-20260-2	
			x	x						x				x			2	57		x				0112-09300-3	
	x			x				x						x			10	183	x					0102-20420-1	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: August 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
8/19			x	x	x			x					x				4	61	x				x	0115-08470-3	Barely gets the E edge
			x	x	x		x						x				2	58	x				x	0115-08480-3	Only gets the SE tip
8/20			x	x	x						x		x				5	64			x	x		0116-09050-3	Good image
8/21			x	x	x						x		x				3	66			x		x	0117-09230-3	Good data
	x			x	x				x						x		11	187	x				x	0117-20180-1	
		x		x	x				x						x		2	161	x				x	0117-20180-2	
	x			x	x						x		x				9	159			x		x	0117-20200-1	Good data
		x		x	x						x		x				5	142			x		x	0117-20200-2	-do-
8/22	x			x	x			x								x	13	204	x				x	0118-20360-1	
		x		x	x			x								x	2	139	x				x	0118-20360-2	
	x			x	x			x								x	15	203	x				x	0118-20380-1	
		x		x	x			x								x	2	120	x				x	0118-20380-2	
8/25	x			x	x				x						x		2	224	x				x	0121-19550-1	Data not cloud covered, had noise problems
		x		x	x				x						x		7	189	x				x	0121-19550-2	-do-
			x	x	x					x					x		2	74	x				x	0121-08590-3	
	x			x	x			x						x			16	187	x				x	0121-19540-1	
		x		x	x			x						x			2	135	x				x	0121-19540-2	
8/31		x		x	x						x					x	2	138	x				x	0127-20060-2	
	x			x	x						x					x	15	191	x				x	0127-20060-1	
	x			x	x		x								x		16	170	x				x	0127-20070-1	No. border
		x		x	x		x								x		2	125	x				x	0127-20070-2	-do-

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: August 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
8/19			x	x	x			x					x					61	x				x	0115-08470-3	Barely gets the E edge
			x	x	x		x						x				2	58	x				x	0115-08480-3	Only gets the SE tip
8/20			x	x	x						x		x				5	64			x	x		0116-09050-3	Good image
	x			x	x			x						x			16	155	x					0116-20010-1	
		x		x	x			x						x			8	155	x					0116-20010-2	
	x			x	x						x		x				14	154			x			0116-20020-1	
		x		x	x						x		x				3	148			x			0116-20020-2	
8/21			x	x	x						x		x				3	66			x		x	0117-09230-3	Good data
	x			x	x				x						x		11	187	x				x	0117-20180-1	
		x		x	x				x						x		2	161	x				x	0117-20180-2	
	x			x	x						x		x				9	159			x		x	0117-20200-1	Good data
		x		x	x						x		x				5	142			x		x	0117-20200-2	-do-
8/22	x			x	x			x								x	13	204	x				x	0118-20360-1	
		x		x	x			x								x	2	139	x				x	0118-20360-2	
	x			x	x			x								x	15	203	x				x	0118-20380-1	
		x		x	x			x								x	2	120	x				x	0118-20380-2	
8/25	x			x	x				x						x		2	224	x				x	0121-19550-1	Data not cloud covered, had noise problems
		x		x	x				x						x		7	189	x				x	0121-19550-2	-do-
			x	x	x					x					x		2	74	x				x	0121-08590-3	
	x			x	x			x						x			16	187	x				x	0121-19540-1	
		x		x	x			x						x			2	135	x				x	0121-19540-2	
8/31		x		x	x						x					x	2	138	x				x	0127-20060-2	
	x			x	x						x					x	15	191	x				x	0127-20060-1	
	x			x	x		x								x		16	170	x				x	0127-20070-1	No. border
		x		x	x		x								x		2	125	x				x	0127-20070-2	-do-

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: September 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
9/4			x	x	x		x									x	2	107	x				x	0131-08460-3	
			x	x	x		x									x	2	82	x				x	0131-08470-3	
9/5			x	x	x			x					x				3	71	x				x	0132-09030-3	No. border
			x	x	x	x						x	x				15	72			x	x		0132-09050-3	Very clear
	x			x	x			x							x		26	49	x				x	0132-19590-1	SE area
		x		x	x			x							x		23	153	x				x	0132-19590-2	-do-
	x			x	x	x					x			x			13	152		x		x		0132-20010-1	Large data dropout in northern part of site
		x		x	x	x					x			x			2	145		x		x		0132-20010-2	Clouds may be problem in day
9/6			x	x	x					x				x			2	74		x		x		0133-09220-3	No. half
			x	x	x				x				x				3	72		x		x		0133-09230-3	So. half, missing eastern [illegible]
9/10		x		x	x				x						x		12	137	x				x	0137-19530-2	SE quarter
	x			x	x				x						x		14	168	x				x	0137-19530-1	-do-
9/17			x	x	x						x				x		2	39		x			x	0144-09270-3	
			x	x	x				x							x	2	50	x				x	0144-09290-3	
9/26			x	x	x				x							x	1	24	x				x	0153-08560-3	NE quarter
			x	x	x				x						x		1	26	x				x	0153-08580-3	SE quarter
	x			x	x				x						x		15	77	x				x	0153-19530-1	-do-
		x		x	x				x						x		1	129	x				x	0153-19530-2	-do-
	x			x	x			x					x				10	96	x				x	0153-19540-1	NE portion
		x		x	x			x					x				1	133	x				x	0153-19540-2	-do-

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SITE: Wyoming - Powder River Basin

HCMM DATA PRODUCTS

DATE: September 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
9/27			x	x	x								x				10	41	x				x	0154-09140-3	No. border
			x	x	x	x		x					x				12	43			x	x		0154-09160-3	Very good, RMS 281
	x			x	x							x													
		x		x	x		x						x				4	39	x						
	x			x	x		x						x				41	68	x				x	0154-20100-1	So. edge
		x		x	x		x						x				2	25	x				x	0154-20100-2	-do-
							x						x				39	64	x				x	0154-20100-1	RMS 283
	x																						x	0154-20100-2	RMS 283, scene mislabeled, is over ocean
		x		x	x							x		x			24	78							
	x			x	x							x		x			2	116		x					
		x		x	x			x									10	145		x				0154-20120-1	
				x	x			x					x				5	132	x					0154-20120-2	
													x						x					0154-20100-1	
																								0154-20100-2	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SITE: Wyoming - Powder River Basin

HCMM DATA PRODUCTS

DATE: October 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
10/3			x	x	x			x						x			1	26	x				x	0160-09260-3	NW tip
			x	x	x		x							x			1	45	x				x	0160-09280-3	SW tip
10/6			x	x	x		x						x				2	40	x				x	0163-08430-3	SE tip
10/7	x			x	x				x				x				12	51		x		x		0164-19570-1	SE quarter
		x		x	x				x				x				44	118		x		x		0164-19570-2	-do-
10/12	x			x	x		x							x			8	158	x				x	0169-19510-1	
		x		x	x		x									x	2	75	x				x	0169-19510-2	
10/13	x			x	x		x						x				11	89	x				x	0170-20080-1	
		x		x	x		x						x				6	97	x				x	0170-20080-2	
	x			x	x							x		x			9	114			x	x		0170-20090-1	
		x		x	x							x		x			2	80			x	x		0170-20090-2	
10/19			x	x	x			x					x				2	38	x				x	0176-09230-3	NW corner
			x	x	x			x					x				2	53	x				x	0176-09250-3	SW corner
10/23	x			x	x					x				x			12	57		x		x		0180-19540-1	Large data dropout in No. half, missing western part
		x		x	x					x				x			1	89		x		x		0180-19540-2	-do-
10/24			x	x	x							x	x				2	46			x		x	0181-09160-3	May be clouds in So. part
	x			x	x							x				x	3	115	x			x		0181-20120-1	
		x		x	x							x				x	2	63	x			x		0181-20120-2	

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: October 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
10/28			x	x	x		x						x				58	112	x				x	0185-19480-3	NE corner, must be day vis?
			x	x	x						x				x		2	29	x				x	0185-08510-3	Strange scene ID
			x	x	x		x									x	2	95	x				x	0185-19460-3	Can't locate, must be day IR?
10/29			x	x	x							x				x	2	33	x				x	0186-09080-3	
			x	x	x		x						x				2	39	x				x	0186-09100-3	SW tip
10/30			x	x	x			x							x		2	26	x				x	0187-09260-3	NW tip

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: November 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
11/3			x	x	x							x	x				2	37			x		x	0191-09010-3	Image entirely black, may be snow covered
11/14			x	x	x							x	x				2	7			x		x	0202-09350-3	Only water visible, rest of image black
	x			x				x					x				15	119	x				x	0202-20000-1	So. border
		x		x				x					x				3	33	x				x	0202-20000-2	-do-
	x			x							x		x				14	92			x		x	0202-20020-1	May be snow covered?
	x			x	x							x	x				14	92	x				x	0202-20020-1	Snow
		x		x	x							x				x	3	25	x				x	0202-20020-2	
	x			x	x				x				x				15	119		x			x	0202-20000-1	
		x		x	x				x							x	3	32	x				x	0202-20000-2	
11/15	x			x	x					x			x				8	94		x			x	0203-20200-1	NW portion, looks like snow
		x		x	x					x			x				2	27		x			x	0203-20200-2	-do-
			x	x	x				x							x	3	8	x				x	0203-09230-3	
			x	x	x		x									x	3	23	x				x	0203-09250-3	
11/23			x	x	x		x						x				2	10	x				x	0211-08340-3	NE tip, very cold?
			x	x	x		x						x				2	15	x				x	0211-08360-3	SE tip, very cold?
11/24			x	x	x							x	x				2	10			x		x	0212-08530-3	Very cold?
			x	x	x		x						x				2	10	x				x	0212-08550-3	-do-
11/25			x	x	x						x		x				2	14		x			x	0213-09110-3	Very cold?
11/29		x		x	x		x						x				22	95	x				x	0217-19430-1	
	x			x	x		x									x	5	44	x				x	0217-19430-2	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: April 1979

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
4/1	x			x	x				x							x	48	175	x				x	0340-19310-1	
		x		x	x				x							x	2	121	x				x	0340-19310-2	Scene temp. about 260°K
	x			x	x					x						x	37	149	x				x	0340-19330-1	
		x		x	x					x						x	2	118	x				x	0340-19330-2	Av. scene temp. about 260°K
4/2	x			x	x							x			x		21	166		x			x	0341-19500-1	
		x		x	x							x				x	2	66	x				x	0341-19500-2	
			x	x	x		x									x	2	169	x				x	0341-08550-3	
4/17	x			x	x				x							x	21	182	x				x	0356-19290-1	
		x		x	x				x							x	2	111	x				x	0356-19290-2	
	x			x	x					x						x	17	161	x				x	0356-19310-1	
		x		x	x					x						x	2	99	x				x	0356-19310-2	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Arizona - Cabeza Prieta

DATE: May - August 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
5/30	x			x	x	x						x	x								x		x	0034-21130-1	Received day IR CCT; data too garbled to use. NASA says data not recoverable. RMS 280.
6/21	x			x	x				x				x						x				x	0056-21220-1	
8/2	x			x	x							x				x	7	208	x				x	0098-21030-1	
		x		x	x							x				x	2	136	x				x	0098-21030-2	
8/5			x	x	x	x						x		x			3	89		x		x		0101-09300-3	
			x	x	x		x									x	2	74	x				x	0101-09320-3	
8/6	x			x	x			x						x			13	202	x				x	0102-20380-1	
		x		x	x			x						x			5	178	x				x	0102-20380-2	
8/7	x			x	x	x			x				x				8	156		x		x		0103-20550-1	RMS 282. Lower 25% of site
		x		x	x	x			x				x				1	155		x		x		0103-20550-2	-do-
	x			x	x	x					x		x				24	183		x		x		0103-20570-1	RMS 282. Upper 75% of site
		x		x	x	x					x		x				1	175		x		x		0103-20570-2	-do-
8/8	x			x	x						x		x				5	172			x		x	0104-21140-1	
		x		x	x						x		x				9	182			x		x	0104-21140-2	
8/10			x	x	x	x					x			x			2	82		x		x		0106-09230-3	
8/16			x	x	x							x	x				28	92			x	x		0112-09340-3	Good image

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HCMM DATA PRODUCTS

SITE: Arizona - Cabeza Prieta

DATE: May - August 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
8/17	x			x	x				x						x		14	194	x				x	0113-20420-1	Eastern half
		x		x	x				x						x		7	157	x				x	0113-20420-2	-do-
			x	x	x							x		x			3	90		x		x		0113-09520-3	Ground track must have been off to get this. It isn't Aug.17!
8/18	x			x								x	x				7	212			x	x		0014-20590-1	
		x		x								x		x			13	183			x	x		0014-20590-2	
8/19	x			x						x			x				5	141		x			x	0115-21170-1	
		x		x						x			x				45	174		x			x	0115-21170-2	
8/21			x	x	x				x						x		2	84	x				x	0117-09260-3	
8/22			x	x	x							x	x				31	89			x	x		0118-09450-3	Good data
		x		x	x							x		x			24	158		x		x		0119-20520-2	Image bright
	x			x	x							x	x				17	211			x	x		0119-20520-1	Good data
8/24	x			x	x						x		x				4	97			x	x		0120-21100-1	
		x		x	x						x		x				41	162			x	x		0120-21100-2	
8/28	x			x	x							x	x				8	180			x	x		0124-20460-1	
		x		x	x							x	x				5	188			x	x		0124-20460-2	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SITE: Arizona - Cabeza Prieta

HCMM DATA PRODUCTS

DATE: September 1978

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Failure?		Scene ID	Remarks
	Day Vis	Day IR	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
9/2		x		x	x					x				x			2	160	x				x	0129-20400-2	
	x			x	x					x				x			12	212	x				x	0129-20400-1	
			x	x	x				x					x			45	86	x				x	0129-09510-3	
			x	x	x					x				x			9	87	x				x	0129-09490-3	
9/3	x			x	x							x		x			8	182		x			x	0130-20570-1	Puffy clouds may be 20%
		x		x	x							x		x			1	143		x			x	0130-20570-2	-do-
9/6			x	x	x							x			x		10	80	x				x	0133-09250-3	
			x	x	x		x						x				3	88	x				x	0133-09270-3	
9/13	x			x	x							x			x		11-182			x				0140-20450-1	
		x		x	x							x			x		7	147		x				0140-20450-2	
9/14	x			x	x					x					x		4	161	x				x	0141-21030-1	So. portion
		x		x	x					x					x		31	144	x				x	0141-21030-2	-do-
	x			x	x			x							x		9	195	x				x	0141-21050-1	NW tip
		x		x	x			x							x		2	131	x				x	0141-21050-2	-do-
9/17			x	x	x			x					x				2	74	x				x	0144-09300-3	
9/18			x	x	x			x					x				1	66	x				x	0145-09490-3	NW tip
			x	x	x		x							x			39	68	x				x	0145-09500-3	SW tip
	x			x	x						x		x				11	113			x	x		0145-20390-1	Eastern 75%
		x		x	x						x		x				4	150			x	x		0145-20390-2	-do-
9/27			x	x	x	x					x		x				25	82		x		x		0154-09150-3	Eastern 75%
9/30	x			x	x	x					x			x			3	165		x		x		0157-21020-1	Western 75%
		x		x	x						x			x			3	158		x		x		0157-21020-2	-do-

HCMM DATA PRODUCTS

SITE: Arizona - Cabeza Prieta

DATE: March/April 1979

Date	Data			Product			% Site Covered						% Site Cloud Covered				DN Range		Ratings			Pairs?		Scene ID	Remarks
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
3/31	x			x	x		x						x				4	129	x				x	0339-20470-1	SW tip, clear over Salton Sea
		x		x	x		x						x				27	129	x				x	0339-20470-2	-do-
4/2			x	x								x	x				2	59			x	x		0341-08570-3	
4/3			x	x	x							x	x				2	60			x	x		0342-09150-3	Clear over site
4/4	x			x	x							x	x				8	79			x	x		0343-20230-1	Excellent
		x		x	x							x	x				28	142			x	x		0343-20230-2	Excellent
4/15	x			x	x							x		x			6	113			x	x		0354-20270-1	
		x		x	x							x		x			6	164			x	x		0354-20270-2	